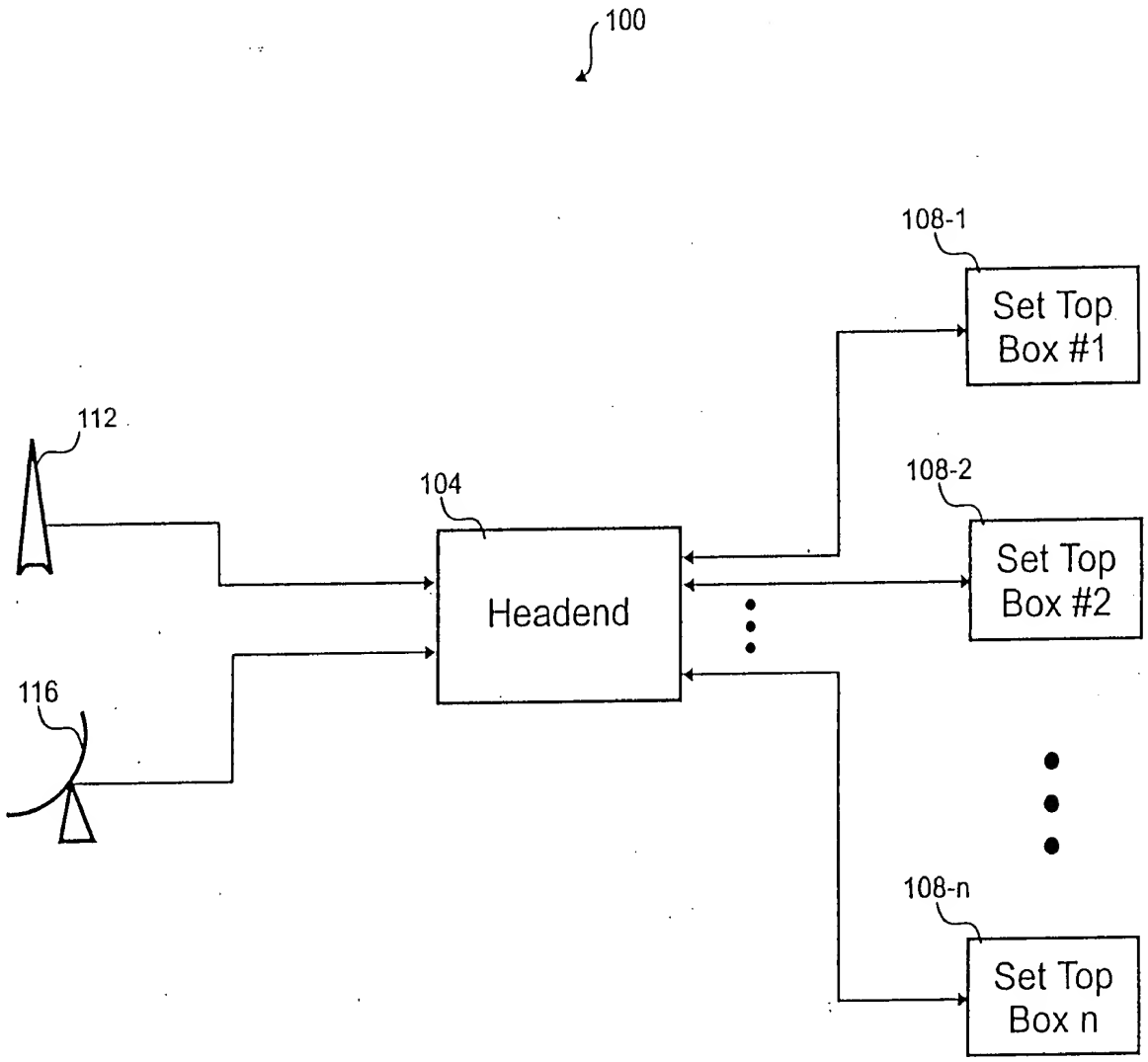
100
108-1
Set Top Box #1
112
104
108-2
Set Top Box #2
Headend
116
108-n
Set Top Box n

Fig. 1

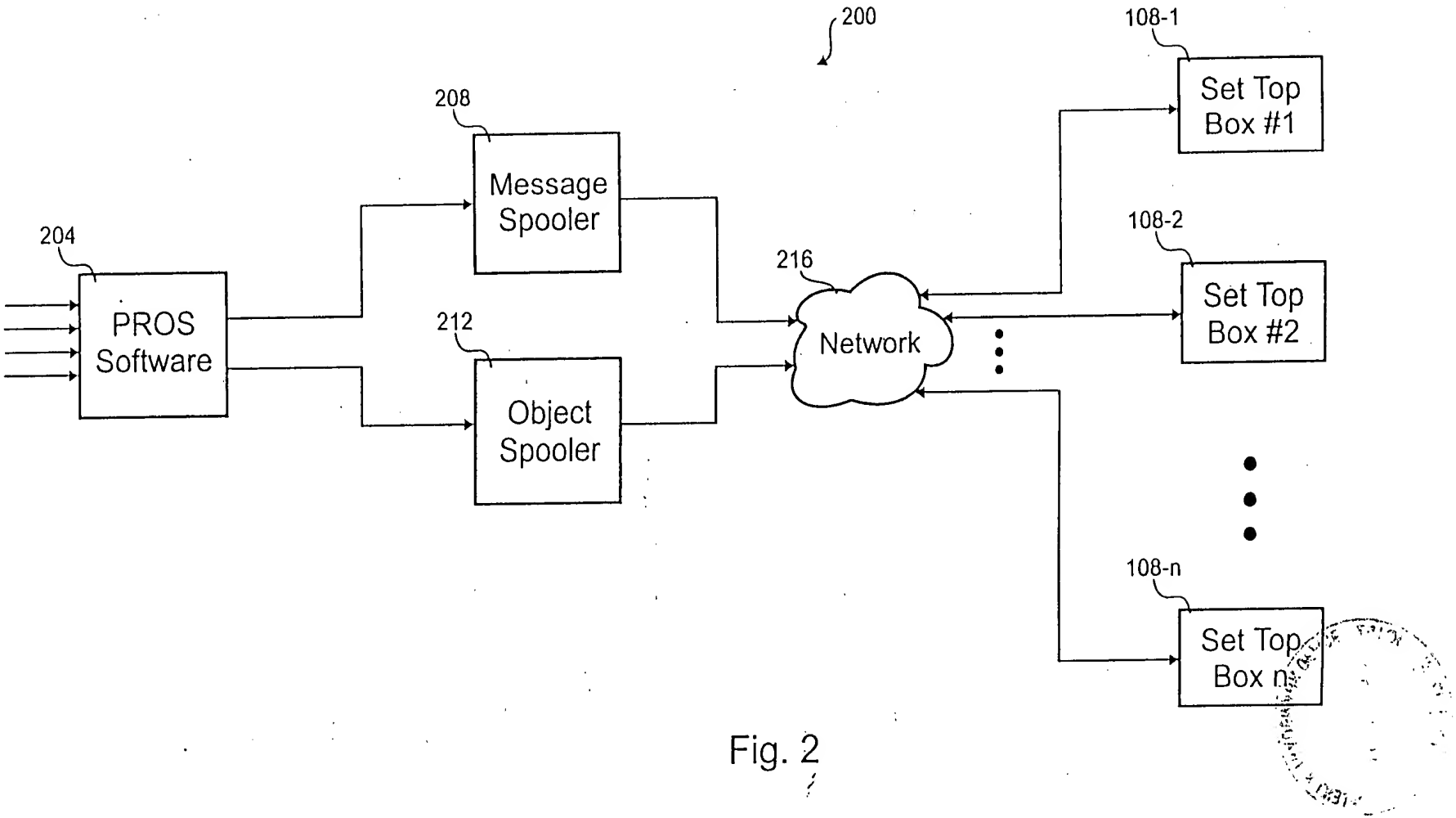
200
108-1
Set Top Box #1
208
Message Spooler
204
PROS Software
216
Network
108-2
Set Top Box #2
212
Object Spooler
108-n
Set Top Box n

Fig. 2

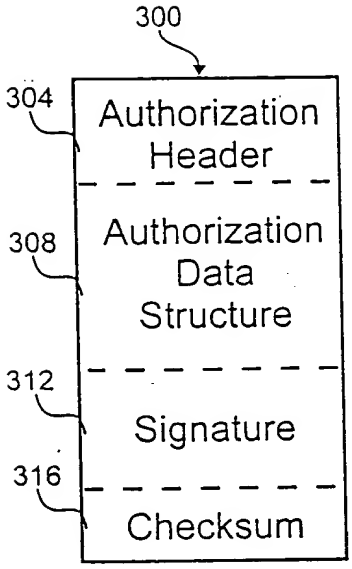

Fig. 3

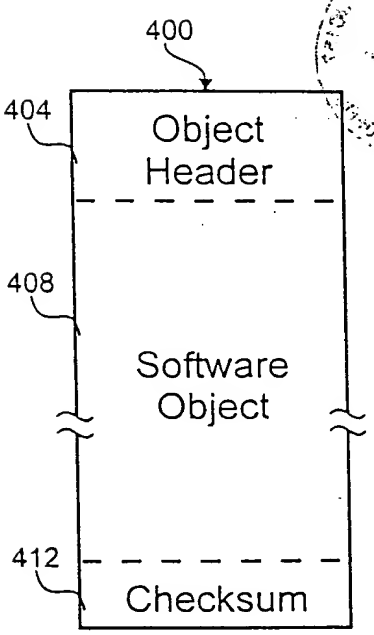

Fig. 4

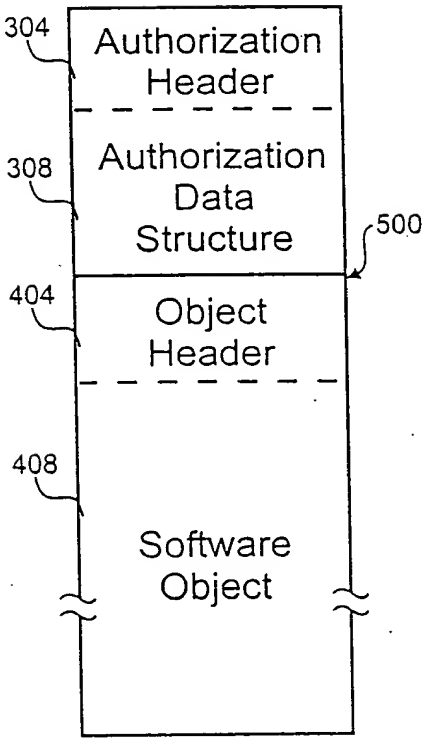

Fig. 5

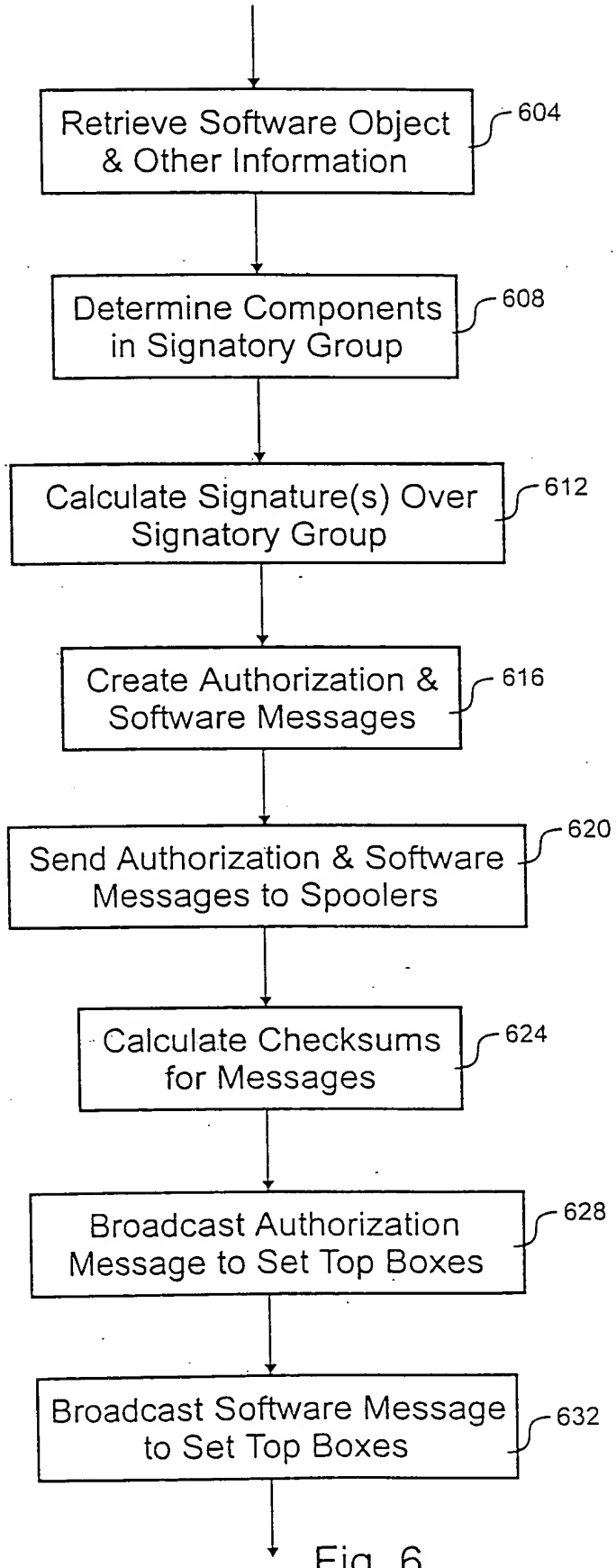
Retrieve Software Object & Other Information
604
Determine Components in Signatory Group
608
Calculate Signature(s) Over Signatory Group
612
Create Authorization & Software Messages
616
Send Authorization & Software Messages to Spoolers
620
Calculate Checksums for Messages
624
Broadcast Authorization Message to Set Top Boxes
628
Broadcast Software Message to Set Top Boxes
632

Fig. 6

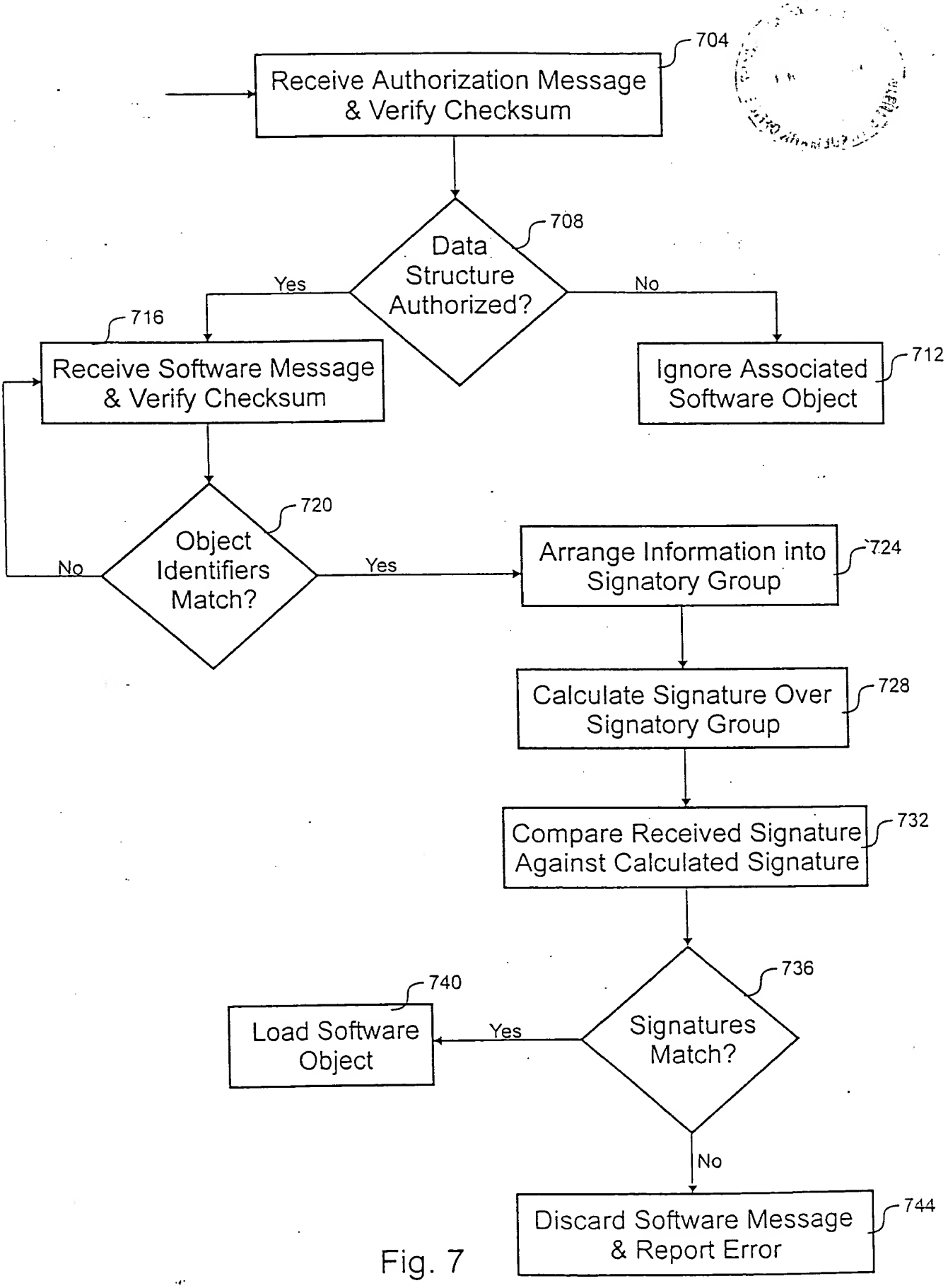
Receive Authorization Message & Verify Checksum
704
Data Structure Authorized?
708
Yes
No
Receive Software Message & Verify Checksum
716
Ignore Associated Software Object
712
Object Identifiers Match?
720
No
Yes
Arrange Information into Signatory Group
724
Calculate Signature Over Signatory Group
728
Compare Received Signature Against Calculated Signature
732
Signatures Match?
736
Yes
Load Software Object
740
No
Discard Software Message & Report Error
744

Fig. 7